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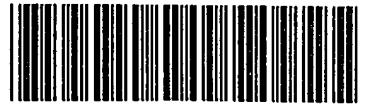
## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
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Application Serial Number: 10/509,727  
Source: 1FwP  
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re-run



IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/509,727

DATE: 08/09/2006

TIME: 09:24:39

Input Set : N:\Crf4\Reftold\10\_folder\J509727.raw  
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1 <110> APPLICANT: Yoshihide HAYASHIZAKI et al.  
 2 <120> TITLE OF INVENTION: NOVEL POLYPEPTIDE AND NUCLEIC ACID ENCODING THE SAME  
 3 <130> FILE REFERENCE: 0760-0339PUS1  
 4 <140> CURRENT APPLICATION NUMBER: US/10/509,727  
 5 <141> CURRENT FILING DATE: 2004-09-30  
 6 <160> NUMBER OF SEQ ID NOS: 18  
 7 <170> SOFTWARE: patent-in 3.2  
 9 <210> SEQ ID NO: 1  
 10 <211> LENGTH: 184  
 11 <212> TYPE: PRT  
 12 <213> ORGANISM: Homo sapiens  
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 15 1 5 10 15  
 16 Gln Met Thr Val Tyr His Pro Gly Gln Leu Gln Cys Gly Ile Phe Gln  
 17 20 25 30  
 18 Ser Ile Ser Phe Asn Arg Glu Lys Leu Pro Ser Ser Glu Val Val Lys  
 19 35 40 45  
 20 Phe Gly Arg Asn Ser Asn Ile Cys His Tyr Thr Phe Gln Asp Lys Gln  
 21 50 55 60  
 22 Val Ser Arg Val Gln Phe Ser Leu Gln Leu Phe Lys Lys Phe Asn Ser  
 23 65 70 75 80  
 24 Ser Val Leu Ser Phe Glu Ile Lys Asn Met Ser Lys Lys Thr Asn Leu  
 25 85 90 95  
 26 Ile Val Asp Ser Arg Glu Leu Gly Tyr Leu Asn Lys Met Asp Leu Pro  
 27 100 105 110  
 28 Tyr Arg Cys Met Val Arg Phe Gly Glu Tyr Gln Phe Leu Met Glu Lys  
 29 115 120 125  
 30 Glu Asp Gly Glu Ser Leu Glu Phe Phe Glu Thr Gln Phe Ile Leu Ser  
 31 130 135 140  
 32 Pro Arg Ser Leu Leu Gln Glu Asn Asn Trp Pro Pro His Arg Pro Ile  
 33 145 150 155 160  
 34 Pro Glu Tyr Gly Thr Tyr Ser Leu Cys Ser Ser Gln Ser Ser Pro  
 35 165 170 175  
 36 Thr Glu Met Asp Glu Asn Glu Ser  
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 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 1613  
 41 <212> TYPE: DNA  
 42 <213> ORGANISM: Homo sapiens  
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 44 ggcacgaggg agaggacgtg ctctgccagc cagtggaaag gcaggccgcg cgcgccggag 60  
 45 cgcgggagga tcggcggtc gcggtcactg gtccctggct cggttcccccg caccggggg 120

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46	ctcacactta	cccgcgcgga	ggagcagcgg	ccgggtgtcc	accccatcc	tgcgcccagt	180
47	ctcctcgatt	cccctcgctc	tgagccggga	gagccgaaca	gctgaagaga	gttcactgac	240
48	tccccagccc	caggtgggcc	ttgtgcacat	c atg acc agt	ttt gaa gat	gct	292
49				Met Thr Ser	Phe Glu Asp	Ala	
50				1	5		
51	gac aca gaa	gag aca gta	act tgt ctc	cag atg acg	gtt tac cat	cct	340
52	Asp Thr Glu	Glu Thr Val	Thr Cys Leu	Gln Met Thr	Val Tyr His	Pro	
53	10	15	20				
54	ggc cag ttg	cag tgt gga	ata ttt cag	tca ata agt	ttt aac aga	gag	388
55	Gly Gln	Leu Gln	Cys Gly Ile	Phe Gln Ser	Ile Ser	Phe Asn Arg	Glu
56	25	30	35				
57	aaa ctc cct	tcc agc gaa	gtg gtg	aaa ttt ggc	cga aat tcc	aac atc	436
58	Lys Leu Pro	Ser Ser Glu Val	Val Lys Phe	Gly Arg Asn	Ser Asn	Ile	
59	40	45	50	55			
60	tgt cat tat	act ttt cag	gac aaa cag	gtt tcc cga	gtt cag ttt	tct	484
61	Cys His Tyr	Thr Phe Gln	Asp Lys Gln	Val Ser Arg	Val Gln	Phe Ser	
62	60	65	70				
63	ctg cag ctg	ttt aaa aaa ttc	aac agc tca	gtt ctc tcc	ttt gaa ata		532
64	Leu Gln	Leu Phe Lys	Lys Phe Asn	Ser Ser Val	Leu Ser	Phe Glu Ile	
65	75	80	85				
66	aaa aat atg	agt aaa aag	acc aat ctg	atc gtg gac	agc aga gag	ctg	580
67	Lys Asn Met	Ser Lys Lys	Thr Asn Leu	Ile Val Asp	Ser Arg	Glu Leu	
68	90	95	100				
69	ggc tac cta	aat aaa atg	gac ctg cca	tac agg tgc	atg gtc	aga ttc	628
70	Gly Tyr Leu	Asn Lys Met	Asp Leu Pro	Tyr Arg Cys	Met Val	Arg Phe	
71	105	110	115				
72	gga gag tat	cag ttt ctg	atg gag aag	gaa gat	ggc gag tca	ttg gaa	676
73	Gly Glu Tyr	Gln Phe Leu	Met Glu Lys	Glu Asp	Gly Glu Ser	Leu Glu	
74	120	125	130	135			
75	ttt ttt gag	act caa ttt	att tta tct	cca aga tca	ctc ttg	caa gaa	724
76	Phe Phe Glu	Thr Gln Phe	Ile Leu Ser	Pro Arg Ser	Leu Gln	Glu	
77	140	145	150				
78	aac aac tgg	cca cca cac	agg ccc ata	ccg gag tat	ggc act tac	tcg	772
79	Asn Asn Trp	Pro Pro His	Arg Pro Ile	Pro Glu	Tyr Gly	Thr Tyr Ser	
80	155	160	165				
81	ctc tgc tcc	tcc caa agc	agt tct ccg	aca gaa atg	gat gaa	aat gag	820
82	Leu Cys Ser	Ser Gln	Ser Ser Pro	Thr Glu	Met Asp	Glu Asn Glu	
83	170	175	180				
84	tca tgaacacaga	aagtctaaga	ggagaaat	at gatggatgaa	gagctctgt	ta	873
85	Ser						
86	gatgtgtat	agacactaaa	taagagttga	ttagggtagt	atattata	gt catctgttat	933
87	gctgtgaaat	ttgaaattca	aaattttgaa	gtctgttaat	tgtgttagtc	attaaacttag	993
88	tcacctgtt	tattctggat	ctacacaaaa	ttattttaag	tgctcttatt	aatctgttag	1053
89	gattaatata	caaaaaat	cctttagat	gaagtctgt	tctcaaaata	aggttatatt	1113
90	atttctttt	tctgcttgat	tttcatctt	tggtttgtt	tgtttttgt	aggaaccatc	1173
91	tcttggttt	gtcacatcag	ttcacaacag	ccattttgtt	tcaaggtcaa	ggctccaggc	1233
92	aggtgttac	ttgtgttgc	agccgtcag	tacttgca	actggatag	gttctaggct	1293
93	agtgtctgcg	cgtcaactgt	gttttagcat	gggaggactt	atttgagaaa	tactacctt	1353
94	cttttctatg	atttctttt	acagagttat	agtgtgttta	ctcctaagat	gacagttctc	1413

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 Output Set: N:\CRF4\08092006\J509727.raw

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95      tttgtctata ttcagcatct aagacaaata ttaaacatt ttaaagaacc actgtgttaa 1473
96      gtttaggatt atttacttac caaatttagaa gtttgacttt tatgtgttat acacaatctt 1533
97      aaaatttcac gaattcacct tttaatagt atccatgtac ataataaaat caaagttaa 1593
98      taaaaaaaaa aaaaaaaaaa 1613
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101 <211> LENGTH: 184
102 <212> TYPE: PRT
103 <213> ORGANISM: mouse
104 <400> SEQUENCE: 3
105      Met Ser Thr Phe Glu Asp Ala Asp Thr Glu Glu Thr Val Thr Cys Leu
106      1           5           10          15
107      Gln Met Thr Ile Tyr His Pro Gly Gln Gln Ser Gly Ile Phe Lys Ser
108      20          25          30
109      Ile Arg Phe Cys Ser Lys Glu Lys Phe Pro Ser Ile Glu Val Val Lys
110      35          40          45
111      Phe Gly Arg Asn Ser Asn Met Cys Gln Tyr Thr Phe Gln Asp Lys Gln
112      50          55          60
113      Val Ser Arg Ile Gln Phe Val Leu Gln Pro Phe Lys Gln Phe Asn Ser
114      65          70          75          80
115      Ser Val Leu Ser Phe Glu Ile Lys Asn Met Ser Lys Lys Thr Ser Leu
116      85          90          95
117      Met Val Asp Asn Gln Glu Leu Gly Tyr Leu Asn Lys Met Asp Leu Pro
118      100         105         110
119      Tyr Lys Cys Met Leu Arg Phe Gly Glu Tyr Gln Phe Leu Leu Gln Lys
120      115         120         125
121      Glu Asp Gly Glu Ser Val Glu Ser Phe Glu Thr Gln Phe Ile Met Ser
122      130         135         140
123      Ser Arg Pro Leu Leu Gln Glu Asn Asn Trp Pro Thr Gln Asn Pro Ile
124      145         150         155          160
125      Pro Glu Asp Gly Met Tyr Ser Ser Tyr Phe Thr His Arg Ser Ser Pro
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127      Ser Glu Met Asp Glu Asn Glu Leu
128      180
130 <210> SEQ ID NO: 4
131 <211> LENGTH: 1970
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133 <213> ORGANISM: Mouse
134 <400> SEQUENCE: 4
135      gagttaggag cagttgtcc cgctgtcgca gctgggttgt cagtgtgtcg gtgtacctaa 60
136      cacaccgaca cagacccttc tttttctcc caggagagga gacaaggctc aggagtcctg 120
137      atctagctgt ggccactgga agactctcag gccggggagc gtc atg tcc acc ttt 175
138      Met Ser Thr Phe
139      1
140      gaa gac gct gat aca gag gag acg gtc act tgt ctc cag atg acc att 223
141      Glu Asp Ala Asp Thr Glu Glu Thr Val Thr Cys Leu Gln Met Thr Ile
142      5           10          15          20
143      tac cat cct ggc caa caa agt ggg ata ttt aaa tca ata agg ttt tgc 271
144      Tyr His Pro Gly Gln Gln Ser Gly Ile Phe Lys Ser Ile Arg Phe Cys
145      25          30          35
  
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146	agc aaa gag aag ttt cct tcc att gaa gtg gtg aaa ttt gga cgc aat	319
147	Ser Lys Glu Lys Phe Pro Ser Ile Glu Val Val Lys Phe Gly Arg Asn	
148	40 45 50	
149	tcc aac atg tgc cag tat acg ttt cag gac aaa cag gtg tcc cga att	367
150	Ser Asn Met Cys Gln Tyr Thr Phe Gln Asp Lys Gln Val Ser Arg Ile	
151	55 60 65	
152	cag ttt gtt tta cag ccg ttt aaa cag ttc aac agc tcc gtt ctc tcg	415
153	Gln Phe Val Leu Gln Pro Phe Lys Gln Phe Asn Ser Ser Val Leu Ser	
154	70 75 80	
155	ttt gaa ata aaa aac atg agc aag aaa acc agt ttg atg gta gac aac	463
156	Phe Glu Ile Lys Asn Met Ser Lys Lys Thr Ser Leu Met Val Asp Asn	
157	85 90 95 100	
158	cag gag ctc ggc tac ctc aat aaa atg gac ctg cct tac aag tgt atg	511
159	Gln Glu Leu Gly Tyr Leu Asn Lys Met Asp Leu Pro Tyr Lys Cys Met	
160	105 110 115	
161	ctc agg ttc gga gag tat cag ttc ctg ttg cag aag gaa gac gga gag	559
162	Leu Arg Phe Gly Glu Tyr Gln Phe Leu Leu Gln Lys Glu Asp Gly Glu	
163	120 125 130	
164	tcg gtg gaa tct ttt gag act caa ttt atc atg tct tca aga cct ctc	607
165	Ser Val Glu Ser Phe Glu Thr Gln Phe Ile Met Ser Ser Arg Pro Leu	
166	135 140 145	
167	ttg caa gaa aac aac tgg cca aca cag aat ccc ata cca gag gat ggg	655
168	Leu Gln Glu Asn Asn Trp Pro Thr Gln Asn Pro Ile Pro Glu Asp Gly	
169	150 155 160	
170	atg tat tct tca tac ttc acc cac aga agt tct cct tca gaa atg gat	703
171	Met Tyr Ser Ser Tyr Phe Thr His Arg Ser Ser Pro Ser Glu Met Asp	
172	165 170 175 180	
173	gaa aac gaa ctg tgaagagggt ccaactggag acacattgaa ggatgaggac	755
174	Glu Asn Glu Leu	
175	acatgggtcg gatgtcaaga gacatcctac ttccgagttt gtgagtgtag cgtagcgcgg	815
176	ctgtcctcat gctgacttgc gttttggtaa tagcatttgg aagtctctag actgtgttaa	875
177	tcatcaactt agtcaactga gtttcggctc tacaaagaat taagtgtaca tctgttaagg	935
178	ttgggtcattc agacacgtct tctgggtaat gaggtcaccc ttgttgcattt tctgcattat	995
179	gttaccccca tgctttgtct tggggcagc catctttgg cccggtcaca tcatttcgta	1055
180	gcagccttgc ttttcaggt ttagagctcg ggcagattgc tcactgggt ctgtggcgtg	1115
181	ctagcgttgc tagaactaga gtcctggaaat aagttctaga gtgctgagtc actgagtcac	1175
182	catggcttcc ttatggaaat acttggaaa tagctccttg attttcttc tgtggAACGG	1235
183	tagtgcgtc ttccatatatg taggacctac aacaaacatt taaaagAACAC tgagatgaag	1295
184	atgttttct tacaatattg aaagtgaatt ttatgtatct cacagattt aaaaatggcag	1355
185	aaatcaaaac ttttaacagc ctcttgcac atgataaaagc cggagcccaat ttccttagtt	1415
186	gcttcttgg aacttcttaa aggaaaacat gtattcttaa aggaaaacat ctattcttag	1475
187	gctgcctat agaagtcaatg acctgtgaat atttatatta aatgtttat tatttctaaa	1535
188	attttatgtt cacataaaatgt tgatattttaa taaaagattt tcatttcattt cattttggct	1595
189	agatataatgtt gaatgttagt gaacattatgt taaaagaggg taaaagccat taatgttaaga	1655
190	taaattcttagt cattactatgt aagtaaggca ccctgtatag cttcctctgt aatgtaaatt	1715
191	taatgtgtatc acaggtacag gatttgggtt aggggaggag gtcaggtggg ggaagttac	1775
192	cacattcata ttttggatgtt gttttgtttt ttgtttttgtt ttttggatgtt caacaatagc	1835
193	ttgtttggaa gctcaggctg gcttggaaact cttgatcctc atacatcgcc cccctgaatg	1895
194	ctgtgcctatg cttaatgtaa ctgttatttctt gcaacagcccc tttcttaataaa	1955

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Input Set : N:\Crf4\Refhold\10\_folder\J509727.raw

Output Set: N:\CRF4\08092006\J509727.raw

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200 <213>	ORGANISM: Artificial Sequence	
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204	gaaggagccg ccaccatgtc caccttgaa gacg	34
206 <210>	SEQ ID NO: 6	
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208 <212>	TYPE: DNA	
209 <213>	ORGANISM: Artificial Sequence	
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212 <400>	SEQUENCE: 6	
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215 <210>	SEQ ID NO: 7	
216 <211>	LENGTH: 26	
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220 <223>	OTHER INFORMATION: Synthetic oligonucleotide primer for PCR	
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224 <210>	SEQ ID NO: 8	
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234 <211>	LENGTH: 41	
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236 <213>	ORGANISM: Artificial Sequence	
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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/509,727

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